

## NOTES FROM 03.30.05 PROTON DRIVER MEETING - CIVIL

Attendees: Dixon Bogert, Rod Walton, Rich Stanek, Ed Crumpley, Elaine McCluskey

### ITEMS DISCUSSED:

1. **Meeting focused mostly on space programming for buildings.** More questions than answers right now. That lead to the conclusion that near future meetings should have specific focus and should have other people invited who can help answer questions for space planning. Elaine will set up schedule and elicit help with finding the right people to invite.
2. **L-0 Building and lower level space below:** Showed most recent layout by Mike, et al, with klystrons located in gallery and space allotted below for instrumentation that is not yet understood. More questions than answers at this point, with open issues continuing to be:
  - a. How will klystrons be moved from L0 to gallery area? Need to discuss this with existing Linac techs.
  - b. How often will equipment need to be replaced? This has implications for keeping material handling abilities at L-0 – is permanent crane required? If infrequent, would mobile crane be more cost effective?
  - c. Still need dimensions and weights of equipment to be off-loaded in this building.
  - d. Mike has shown the building having a test and storage area for klystrons. Should this be located here, or distributed along the gallery?
  - e. Concluded:
    - i. Leaving RFQ area covered by floor to shield against any potential x-ray radiation, plus help with ventilation control is good.
    - ii. Specific meeting to talk with Linac techs about operational considerations should occur. Dixon will arrange for this for a Wednesday morning meeting.
    - iii. Klystrons really can't be tested and stored elsewhere on site and moved to this location due to their fragility.
    - iv. If klystron maintenance area is established in this building, provisions for occupancy by people (implying creature comforts and "living spaces") will have to occur.
    - v. Need beginnings of list of equipment with associated weights and dimensions. Rich will work with Jim Kerby to establish this for the project overall, and civil group can use it to help with material handling equipment questions.
    - vi. Lower level space may be able to be used for golf cart storage and charging, since it needs to be away from the radiated areas, and it's more convenient to leave these in the tunnel than pull them out.
3. **L-1 Building – Klystron Gallery:** Discussed how things like power panel locations can affect need for clear space in gallery as well as how de-centralized such equipment is for safety and operational reasons, and may determine how wide the building really is.
4. **L-25 Center Building:**
  - a. Discussed length of cryomodules. Rich thought length decision is related to SMTF planning, and may be concluded in the near future.
  - b. Lower level could be expanded beyond area just below hatch, and used for golf cart storage.
  - c. Need stair and elevator in this building, as well as toilet facilities
  - d. Not sure of actual operational occupancy, but anticipate storage of things like cryomodules and magnet spares.
5. **L-32 Arc Building:** Dixon thought this would be like other MI buildings with controls room and small corrector power supplies
6. **L-42 Debuncher Building:**
  - a. Contains warm RF station
  - b. Large dipole power supply and quad power supply
  - c. Concern that building may not be large enough on what is already a restricted site.
  - d. May need 2 types of water cooling, with a pump room
7. **MI10:** is existing building large enough to hold new equipment, or will addition be required?
8. **Burning and Beamline stakeout:** Burn for PD region has been postponed 3 times, due to weather conditions. Still planned, April 15<sup>th</sup> date is not rigid. Stakeout of beamline/road area to follow after burning completed.

ITEMS FOR NEXT MEETING:

- Establish schedule for programming each building – Elaine to bring and perhaps next meeting will be one of these
- Rich to get equipment database started up
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**NEXT MEETING 4/06/05 AT 9:30 A.M. IN THE conFESSional WH5NE**